

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	5	("3339579"   "3346009"   "4456028").PNL	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/11 10:23
S2	3	"3508986"	US-PGPUB; DERWENT	ADJ	ON	2008/06/11 10:42
S3	4	"3508986"	US-PGPUB; EPO; DERWENT	ADJ	ON	2008/06/11 10:42
S4	6	"2116293"	US-PGPUB; EPO; DERWENT	ADJ	ON	2008/06/11 10:44
S5	1	"19955083"	US-PGPUB; EPO; DERWENT	ADJ	ON	2008/06/11 10:46
S6	4	"3508986"	US-PGPUB; EPO; DERWENT	ADJ	ON	2008/06/11 10:47
S7	2	"0241952"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/11 10:49
S8	3	"0241952"	US-PGPUB; USPAT; USOCR; EPO; DERWENT	ADJ	ON	2008/06/11 10:49
S9	264	"241952"	US-PGPUB; USPAT; USOCR; EPO; DERWENT	ADJ	ON	2008/06/11 10:50
S10	2	("0241925").PNL	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/11 10:50

S11	2	("3148454").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/11 10:50
S12	4	("3148454").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT	OR	OFF	2008/06/11 10:50
S13	2	("3148454").PN.	EPO; DERWENT	OR	OFF	2008/06/11 10:51
S14	8	("2116293").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	OR	OFF	2008/06/11 11:31
S15	1	(19/955083).APP.	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	OR	OFF	2008/06/11 11:32
S16	8	("1148511").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	OR	OFF	2008/06/11 11:32
S17	4	(03/005177).APP.	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	OR	OFF	2008/06/11 11:35
S18	4	("2818581").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	OR	OFF	2008/06/11 11:36
S19	2	(19/604889).APP.	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	OR	OFF	2008/06/11 11:38

S20	4	("3148454").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; DERWENT	OR	OFF	2008/06/11 11:38
S21	694	137/538.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/11 12:19
S22	437	137/538.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/06/11 12:19
S23	224	piston adj2 flat surface	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/11 14:27
S24	192	piston adj2 flat surface and pressure	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/11 14:27
S25	192	(piston adj2 flat surface) and pressure	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/11 14:27
S26	13	(piston adj2 flat surface) and pressure and "137".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/11 14:27
S27	563	(piston adj2 groove) and pressure and "137".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/11 14:29
S28	82	(piston adj2 groove) and pressure.ii. and "137".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/11 14:29
S29	81	137/470.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/11 17:34
S30	1	("2672881").URPN.	USPAT	ADJ	ON	2008/06/12 08:07
S31	2	BUCHBERGER-THOMAS.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:13
S32	0	BUCHBERGER-THOMAS\$.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:13
S33	0	WEI XELBERGER-FRANZ\$.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:14
S34	1	WEI XELBERGER-FRANZ.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:14
S35	1	HOELLER-WOLFGANG.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:14

S36	0	HOELLER-WOLFGANG\$.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:14
S37	15302	bosch.as.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:15
S38	13178	bosch.as. and de.asco.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:15
S39	6601	bosch.as. and de.asco. and pressure	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:15
S40	565	bosch.as. and de.asco. and pressure.ti.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:15
S41	231	bosch.as. and de.asco. and pressure.ti. and piston	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:24
S42	5	pressure.ti. and piston and adjusting shim	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:29
S43	243	pressure.ti. and piston and shim	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:31
S44	79	pressure.ti. and piston and shim and (regulat\$3 or limit\$3 or control \$4).ti.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 10:31
S45	5	adjusting shim near4 piston	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 11:51
S46	9	adjusting shim near6 piston	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 11:52
S47	325	shim near3 piston	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 11:54
S48	18	shim near3 piston and "137".das.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 11:54
S49	13	shim near3 piston and "251".das.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:00
S50	17	shim near5 piston and "251".das.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:06
S51	0	not S50 and S49	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:06
S52	0	not S50 and S49	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:07

S63	4	not S49 and S50	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:07
S64	24	shim near5 piston and "137".das.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:09
S65	6	not S48 and S54	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:10
S66	325	shim near3 piston	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:12
S67	1	shim near3 piston near2 slip\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:12
S68	1	shim near3 piston near3 slip\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:12
S69	1	shim near3 piston near4 slip\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:12
S60	1	shim near4 piston near4 slip\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:13
S61	1	shim near5 piston near4 slip\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:13
S62	1	shim near5 piston near5 slip\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:13
S63	14	washer near5 piston near5 slip\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 12:13
S64	1	137/538.cds. and calk\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 13:58
S65	0	137/470.cds. and calk\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 13:58
S66	8	137/511-543.23.cds. and calk\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 13:59
S67	137	valve.ti. and calk\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 14:00
S68	2	valve.ti. and (calk\$3 with screw\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 14:00
S69	6	valve.ti. and (calk\$3 with thread\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 14:01

S70	10	housing with (calk\$3 with thread\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 14:02
S71	14	valve housing with calk\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 14:02
S72	0	valvewith calk\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 14:04
S73	135	valve with calk\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 14:04
S74	25	valve with calk\$3 and "137".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 14:04
S75	131	valve with calk\$3 and "137".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 14:09
S76	0	137/538.ccls.caulk\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 14:10
S77	1	137/538.ccls. and calk\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 14:10
S78	63	137/511-543.23.ccls. and calk\$3	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 14:10
S79	6	"2672881"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/12 14:46
S80	776	137/470,538.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/09 14:22
S81	1742	check valve.ti. and spring	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/09 14:25
S82	590	check valve.ti. and spring and piston	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/09 14:26
S83	25792	valve.ti. and spring and piston	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/09 15:28
S84	25202	not S82 and valve.ti. and spring and piston	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/09 15:28
S85	10992	not S82 and valve.ti. and spring and piston and ("137" or "251"). clas. and (slid\$4 or reciproc\$4)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/09 15:29
S86	2663	not S82 and valve.ti. and spring and piston and ("137" or "251"). clas. and (slid\$4 or reciproc\$4) and check valve	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/09 15:35

S87	281	not S86 and check valve.ti. and spring and piston and ("137" or "251").clas. and (slid\$4 or reciproc4)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/09 16:06
S88	266	not S86 and check valve.ti. and spring and stem and ("137" or "251").clas. and (slid\$4 or reciproc4)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/09 16:07
S89	266	check valve.ti. and spring and stem and ("137" or "251").clas. and (slid\$4 or reciproc4)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/01/09 16:07
S90	249	valve.ti. and oblique near3 axis	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/22 16:14
S91	153	valve.ti. and oblique near3 axis and spring	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/22 16:14
S92	18	valve.ti. and (outlet near2 angle near3 axis) and spring	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/22 16:20
S93	52	valve.ti. and (outlet near4 angle near3 axis) and spring	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/22 16:21
S94	779	137/538,470.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/22 16:27
S95	1626	137/528,535,538,470.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/22 16:30
S96	4335	251/318-324.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/22 16:30
S97	140	251/318-324.ccls. and spring and check valve	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/22 16:31
S98	11	251/318-324.ccls. and spring and one-way valve	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/22 16:36
S99	739	137/528,535,538,470.ccls. and spring	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/22 16:36
S100	1	("2672881").URPN.	USPAT	ADJ	ON	2009/04/23 14:12
S101	39	("2219290"   "2822817"   "3234959"   "3439705"   "3565100"   "3943969"   "4005733"   "4176680"   "4313570"   "4371001"   "4412792"   "4716924"   "4862911"   "4953589").PN. OR ("5241986").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 14:13
S102	1127	251/205,206.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 14:21

S103	21	valve.ti. and piston near2 flat surface	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 16:09
S104	42	valve.ti. and piston near4 flat surface	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 16:11
S105	872	(relief near2 valve).ti. and piston	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 16:11
S106	673	"137".clas. and (relief near2 valve).ti. and piston	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 16:11
S107	645	"137".clas. and (relief valve).ti. and piston	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 16:11
S108	70	"137".clas. and (relief valve).ti. and piston and proportional	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 16:12
S109	11	("3482594").URPN.	USPAT	ADJ	ON	2009/04/23 16:19
S110	71	"137".clas. and (relief valve).ti. and proportional near4 pressure	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 16:21
S111	89	"137".clas. and (relief).ti. and proportional near4 pressure	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 16:22
S112	18	not S110 and "137".clas. and (relief).ti. and proportional near4 pressure	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 16:22
S113	9	"2116293"	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/04/23 16:33
S114	15	"2116293"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:34
S115	8	"1421117"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:35



S116	2	"0661479"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:35
S117	26	"661479"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:35
S118	0	"GB661479"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:36
S119	0	"GB0661479"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:36
S120	0	GB0661479	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:36
S121	228	dowty.as. and valve	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:36

S122	77	dowty.as. and valve.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:37
S123	20	"724366"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:38
S124	0	"GB724366"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:39
S125	0	"GB 724366"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:39
S126	40	"685203"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:39
S127	27	"576960"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:40

SI28	16	"550882"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/23 16:41
SI29	7	((("20080022974") or ("5002090") or ("2987071") or ("5462413") or ("2355150")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/04 07:57
SI30	23	("20070079878"   "3339579"   "3346009"   "4170243"   "4456028"   "4577606"   "6029632"   "6095190"   "6209527"   "6244253"   "6308689"   "6446613"   "6536413"   "6622701"   "6622752"   "6675744"   "6781289"   "6874475"   "6962297"   "6969009"   "7025292").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/02/25 16:06
SI31	2918	137/528,535,538,540,542,543.13,543.19,543.23.cds.	US-PGPUB; USPAT	ADJ	ON	2010/02/25 17:10
SI33	1206	137/542,543.13,543.19,543.23.cds.	US-PGPUB; USPAT	ADJ	ON	2010/02/25 17:10
SI35	175	("1631372"   "1967017"   "2159720"   "2234932"   "2305519"   "2348548"   "2350905"   "2706490"   "2784737"   "2792846"   "2804825"   "2896663"   "2922581"   "3083723"   "3085590"   "3243692"   "3272218"   "3362680"   "3415194"   "3656870"   "3965876"   "4074695"   "4196886"   "4282896"   "4315436"   "4445532"   "4467767"   "4507976"   "4542879"   "4577606"   "4590962"   "4648369"   "4737710"   "4740140"   "4763636"   "4777979"   "4793241"   "5033506").PN. OR ("1214595"   "168192"   "1891119"   "2006/0243329"   "2008/0022974"   "2355150"   "2524951"   "2623725"   "2637337"   "2960998"   "2987071"   "2994340"   "3199533"   "3457949"   "5002090"   "5033506"   "5161572"   "5462413"   "696736").UPPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/02/26 17:44

S136	147	(("0883928"   "1305964"   "1326358"   "2121936"   "2138719"   "2633147"   "2653792"   "2668555"   "2670759"   "2676613"   "2744537"   "2770252"   "2821209"   "2833117"   "2865396"   "2896663"   "2906286"   "2934085"   "2960998"   "3029835"   "3457949"   "3463185"   "3477458"   "3559678"   "3561471"   "3565100"   "3645286"   "3654836"   "3725990"   "3742926"   "3762386"   "3896845"   "3965876"   "4009592"   "4010770"   "4072165"   "4194589"   "4214721"   "4240652"   "4265271"   "4319604"   "4324112"   "4362185"   "4396033"   "4437492"   "4459086"   "4467767"   "4478189"   "4610423"   "4628957"   "4637430"   "4648369"   "4712619"   "4766930"   "4846223"   "4951478"   "4953589"   "5033506"   "5092361"   "5137254"   "5139047"   "5170638"   "5390692"   "5421545"   "5590675"   "5645263"   "5709368"   "5794657"   "5868059"   "6047944"   "6089528"   "6405750"   "6546839"   "6557822"   "6581633").PN. OR ("4577606"   "4590962"   "5715795"   "5794657"   "6314753"   "7293579").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/02/26 19:04
S137	139	(("0656236"   "0807269"   "0874652"   "1305964"   "1349253"   "1913664"   "2121936"   "2138719"   "2447729"   "2481713"   "2633147"   "2668555"   "2673062"   "2736338"   "2744537"   "2770252"   "2821209"   "2833117"   "2865396"   "2888035"   "2896663"   "2906286"   "3002528"   "3361154"   "3477458"   "3479999"   "3561471"   "3645286"   "3662950"   "3725990"   "3742926"   "3762386"   "3896845"   "3965876"   "4010770"   "4049017"   "4240652"   "4319604"   "4396033"   "4459086"   "4467767"   "4478189"   "4577606"   "4648369"   "4651779"   "4692102").PN. OR ("1305964"   "4577606"   "4590962"   "4637430"   "4926902").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/03/01 09:23
S138	3	("1913664").URPN.	USPAT	ADJ	ON	2010/03/01 09:32

7/7/2010 12:34:27 PM

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